**Algebra 1 Name:**

**1.10 Do Now Date:**

**Warm Up**

*Directions:* ***SIMPLIFY***

|  |  |
| --- | --- |
| 2 – 3x2 – 7x2 + 4 | 15xy + 2y3 – 5y + 10y3 + 2xy + 3 |

*Do you remember…?*

1. \_\_\_\_\_\_
2. \_\_\_\_\_\_
3. \_\_\_\_\_\_
4. \_\_\_\_\_\_
5. \_\_\_\_\_\_
6. \_\_\_\_\_\_
7. \_\_\_\_\_\_

**Rule for multiplying by a term with a variable:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the coefficients, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the variable the same.**

**Algebra 1 Name:**

**1.10 Notes Date:**

**Definition of the AMAZING Distributive Property**

|  |
| --- |
|  |

**Proofs of the DP**

|  |
| --- |
| **2(3 + 4)** |
| PEMDAS |
| The Distributive Property |

**Why the DP is useful**

|  |
| --- |
| **3(x – 5)** |
| PEMDAS |
| The Distributive Property |

**Algebra 1 Name:**

**1.10 Class Work Date:**

**Distributive Property Practice**

**Multiply** each expression using the **distributive property**.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Be careful: make sure to follow P-E-MD-AS for these last three problems.*** |  |  |

**Simplify** each expression by **combining like terms.**

|  |  |  |
| --- | --- | --- |
|  |  |  |

**Directions:** Determine the missing terms.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| a. \_\_\_  b. \_\_\_   |  |  | | --- | --- | |  |  |   4x  8  c. \_\_\_ | a. \_\_\_  6x  18  c. \_\_\_  b. \_\_\_   |  |  | | --- | --- | |  |  | | x + x + x + 1 + 1 + 1  = x + 1 + \_\_\_ + \_\_\_ + x + \_\_\_  = \_\_\_ ( \_\_\_ + \_\_\_ ) |

**Algebra 1 Name:**

**1.10 Homework Date:**

**More Distributive Property Practice**

Multiply each expression using the distributive property.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
| ***Be careful: make sure to follow PEMDAS for these last three problems.*** |  |  |

|  |  |
| --- | --- |
| **Algebra 1 Name:**  **1.10 Exit Ticket Date:**  **Simplify** each expression.  **1.**  **2.**  **3.** | **Algebra 1 Name:**  **1.10 Exit Ticket Date:**  **Simplify** each expression.  **1.**  **2.**  **3.** |
| **Algebra 1 Name:**  **1.10 Exit Ticket Date:**  **Simplify** each expression.  **1.**  **2.**  **3.** | **Algebra 1 Name:**  **1.10 Exit Ticket Date:**  **Simplify** each expression.  **1.**  **2.**  **3.** |